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## OCTOBER 4.

The President, Dr. JOSEPH LEIDY, in the chair.

Seventeen persons present;

A paper entitled "The Classification of the Post-Cretaceous Deposits." By Angelo Heilprin, was presented for publication.

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## OCTOBER 11.

The President, Dr. JOS. LEIDY, in the chair.

Twenty-two persons present.

A paper entitled "Prolonged Life of Invertebrates. Notes on the Age and Habits of the American Tarantula." By Henry C. McCook, D. D. was presented for publication.

At the meeting of the Botanical Section held September 12th, a paper entitled "Contributions to the Life-Histories of Plants." By Thomas Meehan, was recommended for publication.

*Fossil bones from Florida*.—Prof. LEIDY stated that he had recently received for examination, from the Geological Survey in Washington, two barrels and three boxes of fossil bones from Florida. They are labelled as having been collected by L. C. Johnson, from Mixson's bone-bed, 10 miles east of Archer, Levy Co., Florida. A note accompanying the collection, states that trenches were cut in the bed to the bottom rock from two and a half to six feet deep, and that the bones were found distributed abundantly without order, through the clay from top to bottom. The bones especially the larger ones, are generally much broken, though the original texture is mostly preserved, and they exhibit no trace of being rolled or water worn. The fractures appear to be entirely accidental or with no evidence of human action. Some portions of clay in large hollows of several specimens exhibit finely comminuted bones. The fossils pertain to the same animals previously indicated from the same locality in former communications (See the Proceedings, 1884, 118; 1885, 32; 1886, 11, 37.) They consist chiefly of the remains of *Rhinoceros proterus*, *Mastodon floridanus*, and *Auchenia major*. Among them are a number of well preserved molars of the Rhinoceros and Mastodon. Several more characteristic specimens prove that he had formerly committed a blunder in referring the fragment of a tooth, to an extinct boar with the name of *Eusyodon maximus* (Proc. 1886, 37), which is only part of the lower tusk of the rhinoceros. A tooth from the same locality, sent him by Dr. J. C. Neal of Archer, Florida, indicates a species

of *Hippotherium* different from *H. ingenuum* (Proc. 1885, 33), and also seems sufficiently distinct from the corresponding tooth of the many other species of the genus elsewhere found in America, to render it probable it pertains to an undescribed species. It is an upper molar of an animal approximating the Ass in size, and larger than *H. ingenuum*. The triturating surface, represented in the accompanying figure, exhibits a complexly folded condition of the enamel,



quite different from that of the latter, (compare figure in Proc. 1885, 33). The species may be named *Hippotherium plicatile*. Three lower molar teeth according in size with the upper one were also received from Dr. Neal. An astragalus and fragments of several other bones contained in the former collection accord in size with the teeth of *H. plicatile*, while an astragalus received from Dr. Neal accords in size with the tooth of *H. ingenuum*.

Comparative and other measurements are as follows:—

	<i>H. plicatile.</i>	<i>H. ingenuum.</i>
Upper molar, triturating surface:		
Breadth fore and aft . . . . .	20mm	19mm.
Breadth transversely . . . . .	23 "	17 "
First lower molar:		
Breadth fore and aft . . . . .	25mm	
Breadth transversely . . . . .	14 "	
Intermediate lower molar:		
Breadth fore and aft . . . . .	22mm	
Breadth transversely . . . . .	12 "	
Astragalus:		
Breadth fore and aft . . . . .	49mm	35mm
Breadth transversely behind . . . . .	40 "	29 "

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OCTOBER 18.

Mr. JOHN H. REDFIELD, in the chair.

Nineteen persons present.

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OCTOBER 25.

The President, Dr. JOS. LEIDY, in the chair.

Twenty-four persons present.

*Preliminary note on a new mineral Species from Franklin, N. J.*—  
Prof. GEO. A. KOENIG called attention to his recent examination of a mineral from the above locality which has not been heretofore